

Abstract

Chromatographic strip is used in combination with a transmittance detecting system in a test to quantitate analytes in biological fluid. Chemical reagents or conjugate labels are simply absorbed on the passages' materials of the strip. The substrates, affinity reagents, or antibodies are immobilized on transparent beads in the detection cell of the strip. The biological fluid passes through the strip. The captured analytes are detected by transmittance detection for quantification. Uncaptured elements and interferences in the fluid are drained to the absorbent portion of the strip when the fluid passes the cell as a wash. This chromatographic strip with an analyte capture zone simplifies the procedures that a transmittance detecting system alone cannot overcome. Adjustable light path of the cells in the strip overcome the sensitivity limitation of reflectance detection.